Kevin Lin

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.S. ELECTRICAL ENGINEERING & COMPUTER SCIENCE | Expected May 2022
Major GPA: 3.975 / 4

Relevant Coursework:
Algorithms, Data Structures, Computer Architecture, Machine Learning, Optimization Models, Probability
Fall 2020: Operating Systems and System Programming, Deep Reinforcement Learning, Robotics

EXPERIENCE

PERFORCE SOFTWARE INC | Software Engineering Intern

June 2020 – Aug 2020 | San Francisco, CA

- Wrote, shipped and deployed shared library to integrate Perforce's version control software with Electronic Design Automation software via C++, collaborated with co-founder of Methodics Inc
- Created unit and functional tests for version control integration by picking up AEL programming language
- Built and tested new Public REST API features requested by customers such as Qualcomm and Intel (est. 3000+ engineers) via Python & Java

MOBILE SENSING LAB (BERKELEY AI RESEARCH) | Machine Learning Undergraduate Researcher

Sep 2019 – present | Berkeley, CA

- Investigating Autonomous Driving using deep reinforcement learning methods, imitation learning, bayesian reasoning, model predictive control methods in a multi-agent setting
- Submitted publication "Beliefs and Level-k Reasoning" to the 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2021), London
- Submitted publication to NeurIPS 2020 Virtual Workshop on Machine Learning for Autonomous Driving and Workshop on Emergent Communication

UC BERKELEY EECS DEPARTMENT | CS 70 & CS 170 Undergraduate Student Instructor

June 2020 - present | Berkeley, CA

- (Fall 2020) TA for CS 170: Efficient Algorithms & Intractable Problems
- Writing homeworks, discussions and recording video walkthroughs for the online semester
- (Summer 2020) TA for CS 70: Discrete Math & Probability Theory
- 37.5% of students in discussion section scored A compared to course average of 17.5%
- Taught discussion sections, staffed office hours and led homework parties for a class of 700+ students

PROJECTS + OPEN SOURCE

FLOW: Deep RL for Autonomous Vehicle Based Traffic Control | http://flow-project.github.io
Developing an open-source tool for applying ML techniques to autonomous vehicle driving policy discovery
GoodFund : Ethereum Crowdfunding platform | https://github.com/kevin-thankyou-lin/goodFund
Led team of three in full-stack development of a prototype Ethereum-powered crowdfunding platform designed for extra buyer protection through an escrow service.
RageCage: Grammarly for emotions | http://chrome.google.com/webstore/detail/ragecage
Deployed chrome extension that uses sentiment analysis (IBM Watson API) to detect anger in texts. RageCage creates a pop-up reminder for users to cool off.

LANGUAGES

Python • C • C++ • Java • C • JavaScript • HTML • CSS
Tools + Packages + Protocols:
React JS • Git• Pytorch• Scikit-learn• Ray RLlib• HTTP • REST API• Apache Spark• AWS EC2 • Flask • Docker• Unix • Tensorflow • ROS • OpenAI • OpenCV

ACHIEVEMENTS

2 time New Zealand Math Olympiad Training Camp Competitor (top 28 across the nation)